



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Edward J. Kaplan

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For: *FLEXIBLE AND/OR ELASTIC BRACHYTHERAPY SEED OR STRAND*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicant submits an Information Disclosure Statement, including thirteen (13) pages of Form PTO-1449 and copies of twenty-six (26) documents cited therein. Most of the documents cited below were cited by or submitted to the Patent Office in Application Serial No. 09/861,326, filed May 18, 2001, to which the present application claims priority. Pursuant to 37 C.F.R. §1.98(d), Applicants are not enclosing copies of these publications. Copies will be provided upon request, however. Copies of the newly cited documents, which are identified with an asterisk (\*), are enclosed.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-1868.

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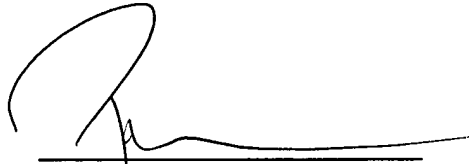
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### Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicant invites the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicant is of the opinion that his claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Patrea L. Pabst', is written over a horizontal line.

Patrea L. Pabst  
Reg. No. 31,284

Dated: December 23, 2003

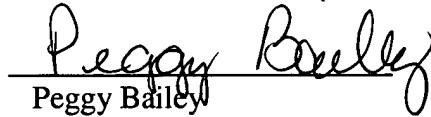
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Filed: September 19, 2003  
INFORMATION DISCLOSURE STATEMENT

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Use as many sheets as necessary 		Applicant Number	10/665,793
		Filing Date	September 19, 2003
		First Named Inventor	Edward J. Kaplan
		Group Art Unit	
		Examiner Name	
Sheet 1 of 13		Attorney Docket Number	KAP 100 CIP

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		3,993,073		Zaffaroni	11-23-1976	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office. <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		PCT	WO 95/03036		Angiogenesis Technologies	02-02-1995		
		PCT	WO 96/14880		PGK Corporation	05-23-1996		
		PCT	WO 97/19706		IBT Technology Partners	06-05-1997		
		PCT	WO 00/32238		Scimed Life Systems, Inc.	06-08-2000		
		PCT	WO 00/41185		Nycomed Amersham PLC	07-13-2000		
		PCT	WO 00/43045		Photogen, Inc.	07-27-2000		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/665,793
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		First Named Inventor	Edward J. Kaplan
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		5,460,592		Langton, et al.	10-24-1995	
		5,486,360		Ballagh, et al.	01-23-1996	
		5,538,726		Order	07-23-1996	
		5,595,979		Snyder	01-21-1997	
		5,620,700		Berggren	04-15-1997	
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		5,650,442		Mitchell, et al.	07-22-1997	
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		5,886,026		Hunter, et al.	03-23-1999	
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FOREIGN PATENT DOCUMENTS								
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		Office. <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		PCT	WO 00/51639		Halogenetics, Inc.	09-08-2000		
		PCT	WO 00/57923		North American Scientific	10-05-2000		
		PCT	WO 01/36007		Angiotech Pharmaceuticals	05-25-2001		
		PCT	WO 02/30472		Guilford Pharmaceuticals	04-18-2002		

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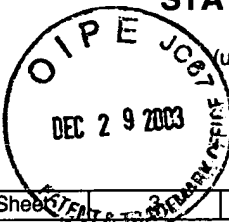
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		Filing Date	September 19, 2003
		First Named Inventor	Edward J. Kaplan
		Group Art Unit	
		Examiner Name	
Sheet 1 of 13	Attorney Docket Number	KAP 100 CIP	

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		2001/0044567		Zamora et al.	11-22-2001
		2002/0055666		Hunter, et al.	05-09-2002
		2002/0055667		Mavity et al.	05-09-2002
		2003/0003094		Hunter, et al.	01-02-2003

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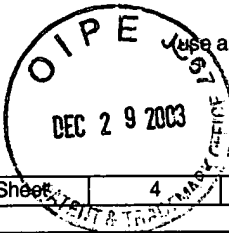
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		ALONSO, et al., "Biodegradable microspheres as controlled-release tetanus toxoid delivery systems," <i>Vaccine</i> 12: 299 (1994).	
		*ARCOS, et al., "Biphasic materials for bone grafting and hyperthermia treatment of cancer," <i>J. Biomed. Mater. Res.</i> 65: 71-78 (2003).	
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		*BOBOFCHAK, et al., "A recombinant polymeric hemoglobin with conformational, functional, and physiological characteristics of an in vivo O <sub>2</sub> transporter," <i>Am. J. Physiol. Heart Circ. Physiol.</i> 285: H549-H561 (2003).	
		CAMARATA, et al., "Sustained release of nerve growth factor from biodegradable polymer microspheres," <i>Neurosurg.</i> 30: 313 (1992).	
		CARDINALE, et al., "Effect of interstitial and/or systemic delivery of tirapazamine on the radiosensitivity of human glioblastoma multiforme in nude mice," <i>Radiation Oncol. Invest.</i> 6: 63 (1998).	

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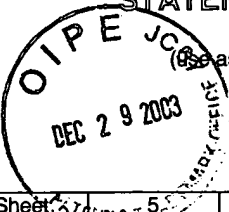
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		CHATTARAJ, et al., "Biodegradable microparticles of influenza viral vaccine: comparison of the effects of routes of administration on the in vivo immune response in mice," <i>J. Control. Rel.</i> 58: 223 (1999).	
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		DURING, et al., "Controlled release of dopamine from a polymeric brain implant: in vivo characterization," <i>Ann. Neurol.</i> 25: 351 (1989).	
		EWEND, et al., "Local delivery of chemotherapy and concurrent external beam radiotherapy prolongs survival in metastatic brain tumor models," <i>Research</i> 56: 5217 (1996).	
		FOWLER, et al., "Evaluation of an implant that delivers leuprolide for one year for the palliative treatment of prostate cancer," <i>Urology</i> 55: 639 (2000).	

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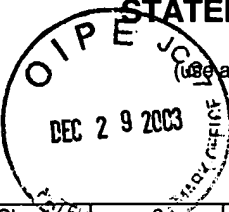
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		FUNG, et al., "Pharmacokinetics of interstitial delivery of camustine, 4-hydroperoxycyclophosphamide, and paclitaxel from a biodegradable polymer implant in the monkey brain," <i>Cancer Res.</i> 58: 672 (1998).	
		*GANZA-GONZALEZ, et al., "Chitosan and chondroitin microspheres for oral-administration controlled release of metoclopramide," <i>Eur. J. Pharm. Biopharm.</i> 48: 149-155 (1999).	
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		*HILGENFELDT, et al., "The acoustics of diagnostic microbubbles: dissipative effects and heat deposition," <i>Ultrasonics</i> 38: 99-104 (2000).	
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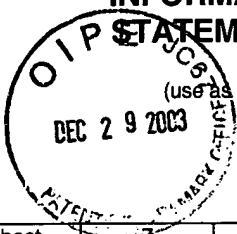
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		*JAISWAL, et al., "Long-term multiple color imaging of live cells using quantum dot bioconjugates," <i>Nature Biotechnol.</i> 21: 47-51 (2003).	
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		LAURENCIN, et al., "Bioerodible polyanhydrides for antibiotic drug delivery: in vitro osteomyelitis treatment in a rat model system," <i>J. Orthopaedic Res.</i> 11: 256 (1993).	
		*LEBUGLE, et al., "Study of implantable calcium phosphate systems for the slow release of methotrexate," <i>Biomaterials</i> 23: 3517-3522 (2002).	

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		LEIBEL & PHILLIPS, <u>Textbook of Radiation Oncology</u> (1998).	
		*LENDLEIN, et al., "Biodegradable, elastic shape-memory polymers for potential biomedical applications," <i>Science</i> 296: 1673-1676 (2002).	
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		*MERRICK, et al., "Seed fixity in the prostate/periprostic region following brachytherapy," <i>Int. J. Radiation Oncol. Biol. Phys.</i> 46: 215-220 (2000).	
		*MINAMIMURA, et al., "Tumor regression by inductive hyperthermia combined with hepatic embolization using dextran magnetite-incorporated microspheres in rats," <i>Int. J. Oncol.</i> 16: 1153-1158 (2000).	
		*MITSUMORI, et al., "Development of intra-arterial hyperthermia using a dextran-magnetite complex," <i>Int. J. Hyperthermia</i> 10: 785-793 (1994).	

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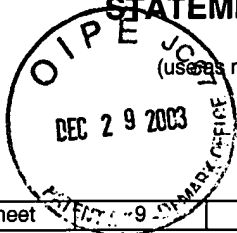
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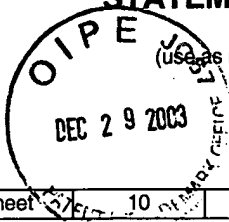
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		Filing Date	September 19, 2003
		First Named Inventor	Edward J. Kaplan
		Group Art Unit	
		Examiner Name	
Sheet 10 of 13	Attorney Docket Number	KAP 100 CIP	

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		RAMIREZ, et al., "Biodegradable poly(DL-lactic-co-glycolic acid) microspheres containing tetracaine hydrochloride. In-vitro release profile," <i>J. Microencapsulation</i> 16: 105 (1999).	
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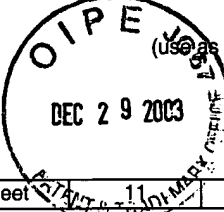
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		*SUNDBACK, et al., "Manufacture of porous polymer nerve conduits by a novel low-pressure injection molding process," <i>Biomaterials</i> 24: 819-830 (2003).	
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		"WANG, et al., "A tough biodegradable elastomer," <i>Nature Biotechnol.</i> 20: 602-606 (2002).	
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		YAPP, et al., "The potentiation of the effect of radiation treatment by intratumoral delivery of cisplatin," <i>Int. J. Radiation Oncol. Biol. Phys.</i> 42: 413 (1998).	
		YAPP, et al., "Tumor treatment by sustained intratumoral release of cisplatin: effects of drug alone and combined with radiation," <i>Int. J. Radiation Oncol. Biol. Phys.</i> 39: 497 (1998).	

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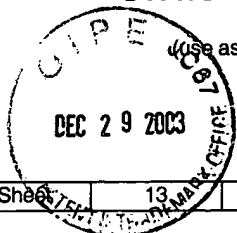
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		YOSHIDA, et al., "In vivo release of cisplatin from a needle-type copolymer formulation implanted in rat kidney," <i>Biomaterials</i> 10: 17 (1989).	
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